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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/530,202	04/26/2000	NORIKO SAKASHITA	000466	3928	
23850	7590 11/29/2001				
ARMSTRONG,WESTERMAN, HATTORI, MCLELAND & NAUGHTON, LLP 1725 K STREET, NW, SUITE 1000			EXAMINER		
			EGWIM, KELECHI CHIDI		
WASHINGT	ON, DC 20006		ART UNIT	PAPER NUMBER	
			1713	7-	
			DATE MAILED: 11/29/2001	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	Application No. Applicant(s)					
		09/530,202		SAKASHITA ET AL.				
		Examiner		Art Unit				
		Dr. Kelechi C		1713				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1)								
	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is no	n-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) Claim(s) 1-4 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-4</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) ☐ The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠	〗All b) ☐ Some * c) ☐ None of:							
1	. Certified copies of the priority documents	s have been r	eceived.					
2	Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
<ul> <li>a) The translation of the foreign language provisional application has been received.</li> <li>15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>								
Attachment(s)								
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u>	5)	Notice of Informal	y (PTO-413) Paper No Patent Application (PT				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102/103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, 35 U.S.C. 103(a) as being unpatentable over Kishida et al. (JP 01215846), Tuzuki et al. (USPN 4,179,481), Matsuba et al. (US 5,093,420 or EP 392 465) or GB 1378434 for reasons cited below.

In the abstract, Kishida et al. teach two-stage polymer process additives to vinyl chloride resins, in concentrations of 0.05 to 25 parts per 100 parts of PVC, wherein the first stage, comprising 85-99 parts by weight per 100 parts of the two-stage polymers, is prepared from more that 60 wt% of methyl methacrylate and the second stage, comprising 1-15 parts by weight per 100 parts of the two-stage polymers, is prepared in the presence of the first stage polymer from acrylic acid esters.

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Further, in page 4, section 12, Kishida et al. teaches that foaming agents may also be added to the vinyl chloride resins.

In col. 1, lines 10-12 and 55-68 and col. 2, lines 1-16, Tuzuki et al. teach two-stage polymer process additives to vinyl chloride resins, in concentrations of 0.1 to 100 parts per 100 parts of PVC, wherein the first stage, comprising 50-99 parts by weight per 100 parts of the two-stage polymers, is prepared from more that 85.71 wt% of methyl methacrylate and the second stage, comprising 1-50 parts by weight per 100 parts of the two-stage polymers, is prepared in the presence of the first stage polymer from acrylic and methacrylic esters except methyl methacrylate and 40 wt% or less of methyl methacrylate.

Further, in col. 3, lines 41-45 and col. 6, lines 4-9, Tuzuki et al. teaches that the two-stage polymers should preferably have specific viscosities of at least 0.5 and that additives such as foaming agents (blowing agents) may be added to the vinyl chloride resins.

Matsuba et al. [(US' col. 2, lines 42-68 and col. 3, lines 1-12) or (EP' page 3, lines 10-21)] teach two-stage polymer process additives to vinyl chloride resins, in concentrations of 0.1 to 30 parts per 100 parts of PVC, wherein the first stage, comprising 60-95 parts by weight per 100 parts of the two-stage polymers, is prepared from 50 to 95 wt% of methyl methacrylate and the second stage, comprising 5-40 parts by weight per 100 parts of the two-stage polymers, is prepared in the presence of the

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first-stage polymer from 20 to 80 wt% of acrylic and methacrylic ester except methyl methacrylate, the balance being methyl methacrylate or other vinyl monomers, wherein the two-stage polymer has a specific viscosity of 1 or more.

Matsuba et al. [(US' col. 6, lines 60-65) or (EP' page 5, lines 39-41)] further teach that additives such as foaming agents (blowing agents) may be added to the vinyl chloride resins.

In page 2, lines 60-86 and the examples, GB 1378434 teach two-stage polymer process additives to vinyl chloride resins, in concentrations of 0.1 to 100 parts per 100 parts of PVC, wherein the first stage, comprising 50-99 parts by weight per 100 parts of the two-stage polymers, is prepared from essentially methyl methacrylate with optional minor amounts of other (meth)acrylate esters and vinyl monomers and the second stage, comprising 1-50 parts by weight per 100 parts of the two-stage polymers, is prepared in the presence of the first stage polymer from a mixture consisting essentially of acrylic and methacrylic ester except methyl methacrylate, with optional minor amounts of methyl methacrylate.

Further, in page 2, lines 107-111, and page 3, lines 94-98, GB 1378434 teaches that the two-stage polymers should preferably have specific viscosities of at least 0.5 and that additives such as foaming agents (blowing agents) may be added to the vinyl chloride resins.

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While Kishida et al., Tuzuki et al., Matsuba et al. or GB 1378434 do not expressly teach the specific viscosity of the seed latexes, it is reasonable that the viscosity of the latexes would have been at least the value of the specific viscosity of the final polymer and would possess the presently claimed specific viscosities given the composition and preparation of the polymers are essentially the same as in the claimed composition. The USPTO does not have at its disposal the tools or facilities deemed necessary to make physical determinations of the sort. In any event, an otherwise old composition is not patentable regardless of any new or unexpected properties. In re Fitzgerald et al , 619 F.2d 67, 205 USPQ 594 (CCPA 1980). See MPEP § 2112 - § 2112.02.

Even if assuming that the prior art references do not meet the requirements of 35 U.S.C. 102, it would still have been obvious to one of ordinary skill in the art, at the time the invention was made, to arrive at the same inventive composition because the disclosure of the inventive subject matter appears within the generic disclosure of the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Kelechi C. Egwim whose telephone number is (703) 306-5701. The examiner can normally be reached on M-T (7:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (703) 308-2450. The fax phone numbers for the organization where this application or proceeding is assigned are 872-9310 for regular communications and 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

KCE

November 26, 2001